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UNIVERSITY OF NEBRASKA COLLEGE OF
AGRICULTURE AND HOME ECONOMICS
THE AGRICULTURAL EXPERIMENT STATION

E. F. FROLIK, DEAN
H. W. OTTOSON, DIRECTOR

Agricultural Experiment Station



Vol. 1, No. 8, February 1969

FROM THE DIRECTORS OFFICE

You may have noted in the press the proposal of Midwest Feeding Company for zoning clearance to establish a 25,000 head feedlot and a packing plant on a tract of about 800 acres abutting the University Field Laboratory directly north of the headquarters area. This proposal was evaluated thoroughly by the Departments and staff affected. As a result the University then submitted to the Saunders County Planning Commission and Board of Supervisors our concerns about potential detrimental effects upon our research programs. In action of February 21, the Saunders County Board of Supervisors turned down the rezoning request which would have permitted a packing plant. However, the Company was given a "limited" permit for the development of a feed yard subject to guide lines including a specification that the lots will be covered.

There has also been recent publicity about a major lake development on the Platte above Ashland which would affect certain areas on the south and east of the Field Laboratory. How much, if any, laboratory land might be involved for recreation and wildlife reserve is not yet certain. Actual water back-up at flood pool level would likely affect some low areas on the southwest and southeast.

H. W. Ottoson

FOOD SCIENCE AND TECHNOLOGY DEPARTMENT

This new department was created January 1, 1968, by Board of Regent action. This action was taken to provide a "home" for undergraduate students majoring in an interdepartmental program of food technology and to provide for a centering of activities--research and extension--for the commercial food industry. The Department is housed on the first floor of the Dairy Industry building.

Food Science involves the study and understanding of the basic food constituents; proteins, fats, carbohydrates, vitamins and enzymes, and their chemical, microbiological and physical reactions prior to, during and after processing. Food Technology embodies the application of the basic principles of food science, physical sciences and engineering.

Course offerings provide the student either a science or a business option. Present undergraduate majors number 25. The graduate program includes eight M.S. and Ph.D. candidates.

The staff is composed of four food scientists from the dairy products section of the former Dairy Science Department, three new staff appointees and four staff members from other departments having courtesy appointments. The staff and areas of emphasis are:

Dr. T. E. Hartung, Chairman - Quality Assurance
Dr. R. B. Maxcy - Food Microbiology, Food Irradiation
Dr. K. M. Shahani - Food Enzymes
Dr. R. G. Arnold - Flavor Chemistry
Dr. L. D. Satterlee - Food and Protein Chemistry
Mr. T. W. Evans - Food Marketing Economist
T.B.A. - Food Technologist, Irradiation
Dr. G. W. Froning - Poultry Products (Poultry Science)
Dr. Pauline Paul - Muscle Chemistry (Foods and Nutrition)
Dr. R. Mandigo - Red Meat Products (Animal Science)
Mr. P. J. Mattern - Wheat and Cereal Chemistry (Agronomy)

T. E. Hartung, Chairman

PERSONNEL ACTIONS

Gupta, Vinod - Instructor in Agricultural Engineering.
Nichols, James T. - Associate Professor of Agronomy at the North Platte Station.
Sulek, John Joseph - Agricultural Engineering - Retired January 2, 1969.
Wellman, Allen C. - Assistant Professor of Agricultural Economics.

NEW GRANTS, CONTRACTS AND COOPERATIVE AGREEMENTS

Danielson, D. M. - North Platte Station, Nebraska Swine Council, Inc.,	\$ 5000.00
Drew, J. V. - Agronomy, National Science Foundation	4880.00
Hartung, T. E. - Poultry Science, DeKalb Agricultural Association	200.00
Hartung, T. E. - Poultry Science, Poultry Breeding Farms Ltd.	200.00
Trotter, V. Y. - Home Economics, Department of Health, Education & Welfare	36,537.00
Woods W. R. - Animal Science, Charles Pfizer and Co.	1200.00

GENERAL NOTES

1. Director Ottoson has appointed an interdisciplinary research task group on "Stalk Rot" under the Chairmanship of Dr. Boosalis and including representatives of Entomology, Plant Pathology, Agronomy and Agricultural Engineering.
2. The formal dedication of Marvel Baker Hall is scheduled for March 7 with an impressive program arranged by the Animal Science Department. The 21st Annual National Livestock Conference is being held here in connection with the dedication.
3. Renovation of the top two floors of the Dairy Industry building is well underway, as is the consolidation of Food Science and Technology Department facilities on the two lower levels of that building.
4. During the renovation of their facilities in Dairy Industry the Agricultural Economics Department is located in several campus locations. The departmental office is on the first floor of the old Animal Science building, and components of the staff are located in Foods and Nutrition, Agricultural Engineering, Turkey Hall and the basement of Dairy Industry. Their telephone numbers remain as listed in the directory.
5. One reason experience is such a good teacher is that she doesn't allow drop-outs.

R. W. Kleis

Agricultural Experiment Station Publications - February 1969

2529. Migration of an Anholocyclic Strain of the Spotted Alfalfa Aphid into Nebraska. J. M. Schalk and G. R. Manglitz. Journal of Economic Entomology.
2530. Herbicide Residue in Soil when Applied to Sorghum in a Winter Wheat-Sorghum-Fallow Rotation. G. A. Wicks, C. R. Fenster, and O. C. Burnside. Agronomy Journal.
2531. Anaerobic Decomposition of Swine Excrement. O. E. Cross and Alvaro Duran. Transactions of ASAE.
2532. Weed Control in Sugar Beets with Herbicides and In-the-Row Cultivation. G. A. Wicks and F. N. Anderson. Journal series article for Weed Science.
2533. Influence of Bentonite, Magnesium and Polyamines on Degradation and Aggregation of Tobacco Mosaic Virus. Myron K. Brakke and Nancy Van Pelt. Virology.
2534. Breeding Behavior and Effect of Temperature on Expression of a Variegated Rogue in Green Beans. Dermot P. Coyne. Proceedings of American Society of Horticulture Science.
2535. Hybrid Corn Yield Reduction by Stalk and Root Rot in Nebraska. David S. Wysong, and Eric Kerr. Plant Disease Reporter.
2536. Effects of Temperature and Light on Axillary Bud and Tiller Development in Blue Grama. J. Stubbendieck and D. F. Burzlaff. Range Management.
2537. Micronutrient Availability in Three Soil Materials as Affected by Applications of Zinc, Lime, and Sulfur. R. G. Hoeft and R. C. Sorensen. Soil Science Society Proceedings.
2538. Self-Propelled Combine for Harvesting Research Plots. O. C. Burnside. Weed Science.
- 2539a. Dry Matter Percent and Crystallization of Cervical and Vaginal Mucus During the Estrous Cycle of the Cow. A. B. Schultze and J. Noonan. To be presented at the Dairy Science Meeting in June.
- 2540a. Cell Injury of Coliform Bacteria and Recovery on Violet Red Rile Agar. R. B. Maxcy. Journal of Dairy Science.
- 2541a. Inhibition of Heat Induced Browning of Milk by L-cysteine. R. G. Arnold. Journal of Dairy Science.
- 2542a. Glyceride Synthesis by Lipase. M. Iwai, J. R. Vakil, I. M. Khan, and K. M. Shahani. Journal of Dairy Science.
- 2543a. Purification and Characterization of Human Milk Ribonuclease. B. K. Dalaly, R. R. Eitenmiller, and K. M. Shahani. Journal of Dairy Science.
- 2544a. In vivo Determination of Teat Streak Canal Anatomy. R. D. Appleman. Journal of Dairy Science.
2545. Topical Toxicity of Insecticides to Diabrotica virgifera Leconte Adults. Harold J. Ball. Journal of Economic Entomology.

Station and Research Bulletins Printed

- RB 230 Life Cycle Studies With Musk Thistle. M. K. McCarty and C. J. Scifres.
- SB 503 Efficiency of Tank Wagon Delivery of Farm Petroleum Products. Dale G. Anderson and Richard G. Walsh.